Date: Thu, 14 Apr 94 13:58:46 PDT

From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>

Errors-To: Info-Hams-Errors@UCSD.Edu

Reply-To: Info-Hams@UCSD.Edu

Precedence: Bulk

Subject: Info-Hams Digest V94 #416

To: Info-Hams

Info-Hams Digest Thu, 14 Apr 94 Volume 94 : Issue 416

Today's Topics:

AMSAT HF PBBS MOVE Anyone Bicycle Mobile? C91J QSL Info

Daily Summary of Solar Geophysical Activity for 12 April
Florida west coast repeaters
FM Broadcast as a freq. ref.
Green Card Lottery- Final One?
Ham radio in Germany
IPS Daily Report - 13 April 94
Katashi Nose, KH6IJ, 1916-1994
Need Address of Panavise
QSL route
RS Sale on Handhelds ????
Spatial Polarity ??
STOP SENDING HAMS ON USENET CRAP !!!

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu> Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu> Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available (by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

\_\_\_\_\_\_

Date: 14 Apr 94 18:46:12 GMT From: news-mail-gateway@ucsd.edu

Subject: AMSAT HF PBBS MOVE

To: info-hams@ucsd.edu

SB PBBS@AMSAT \$ARTS-094

AMSAT PBBS MOVE

The AMSAT PBBS will be changing frequency and modes starting April 15th at 1600 UTC. The AMSAT PBBS will be on a Mark frequency of 14.079, that's (14.181.1 AFSK LSB), using the mode Pactor with the callsign WTON. The new schedule will be as follows: Monday THRU Saturday from 1600 UTC until 2300 UTC on a Mark frequency of 14.079. From 2330 UTC until 0400 UTC on a Mark frequency of 7.073.5 that's (7.075.6 AFSK LSB), using the Mode Pactor. These changes have been made to better serve AMSAT users with better coverage and use of a mode that many of the users have expressed an interest in. If anyone would like to use the Mode G-TOR, please let me know and I can see about setting up a schedule for G-TOR users. Please send any comments or suggestions to one of the following:

INTERNET: BJARTS@STTHOMAS.EDU

PACKET: WTON@WBOGDB.#STP.MN.USA.NOAM

PACTOR: WTON

The AMSAT PBBS will have updated Keps and AMSAT BULLETINS, along with SpaceNews and other satellite related items.

73 AND THANKS FOR YOUR TIME AND INTEREST THE AMATEUR SATELLTIE PROGRAM de BJ ARTS  $\mbox{WT}\mbox{ON}$ 

/EX

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Date: 11 Apr 94 10:05:24 EDT

From: ihnp4.ucsd.edu!sdd.hp.com!vixen.cso.uiuc.edu!howland.reston.ans.net!pipex!

sunic!psinntp!psinntp!main03!landisj@network.ucsd.edu

Subject: Anyone Bicycle Mobile?

To: info-hams@ucsd.edu

In article <207v2p\$irj@tuba.cit.cornell.edu>, jrl2@crux1.cit.cornell.edu (Jeffrey
R. Luszcz) writes:

- > Hi,
- > I just did some bike-mobile operation last tuesday.
- > I was only biking about 5 miles but this is what I
- > learned. First my setup. I have an old army ledic
- > bag that I throw over my shoulder, its strap goes
- > crosswise accross my chest. I put my handheld in the
- > bag with the antenna sticking out of the top flap but
- > tighten the clasps down tight. I have my ht wrapped in a
- > canvas holdere inside the bag. I attach a clip speacker
- > mike to the shoulder strap and put the volume way up.
- > This lets me hear nicely when other people are talking
- > and lets me compete with wind noise when I'm talking
- > since the mike is close to my mouth.
- > I thought abouut one of those fancy ear mikes but
- > decided agaist it because.

```
1) its too easy to get hit on your bike anyway, so why
>
           add yet another reason to get distracted
>
>
     2) too much $$$$
     3) would probably hurt if the ht fell out or off and the ear thing
>
          got ripped out.
>
>
     I have heard that if you connect your ht to your antenna
>
>
     with a cable between the antenna and the ht, if it falls
     its easier on the antenna connector, but I haven't tried
>
>
    it myself.
>
>
    I've thought about mounting it on my handle bars but I'm
    worried about vibration...
>
>
>
    hope this helps.
>
>
    -Jeff N2TIQ
>
```

I've been taking an HT along on some mountain bike trips in NE PA. I haven't actually tried to ATB ride and operate though, except some simplex stuff once on smooth back roads in the NJ pine barrens. Maybe when I get a speaker mike I'll give it a try. Should be able to clip it to your helmet chin strap. Ever consider mounting a longer rubber duck on a Blackburn aluminum rear MTB rack? Might be a pretty good ground, at least for UHF. Maybe you could even shock mount the HT on the rack. These racks are very strong, and would provide good impact protection if the radio was centrally mounted. A small sealed 12V gel cell pack on the rack would be nice too! I thought about handlebar mounting. I wouldn't want anything there for some of the endos I take.

```
73, Joe - AA3GN
```

Joe Landis - System & Network Mgr. - North American Drager Co. landisj@drager.com | uupsi5!main03!landisj | AA3GN @ WB3JOE

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Date: Mon, 11 Apr 1994 12:46:19 GMT

From: sgiblab!swrinde!emory!europa.eng.gtefsd.com!howland.reston.ans.net!EU.net!

relay.puug.pt!news.inesc.pt!animal.inescn.pt!ciup2.ncc.up.pt!news.ci.ua.pt!

etjfonte@ames.arpa Subject: C91J QSL Info To: info-hams@ucsd.edu

MIDN Vasily Chistiakov (M970984) (m970984@usna.navy.mil) wrote:

: Does anyone know who the QSL manager for C91J is? Thanks

QSL to W8GIO ... Good DX'ing

## 73's de CT1ENQ

| Jose' Miguel M.B.Fonte | Universidade de Aveiro - PORTUGAL | Departamento de Electronica e Telecom. | E-mail : etjfonte@ci.ua.pt | ------| Ham callsign : CT1ENQ "always QRV" |

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Date: 14 Apr 94 04:25:51 GMT

From: agate!howland.reston.ans.net!cs.utexas.edu!utnut!utcsri! newsflash.concordia.ca!canopus.cc.umanitoba.ca!tribune.usask.ca! kakwa.ucs.ualberta.ca!quartz.ucs.ualberta.ca!alberta!ve6mgs!usenet@@. Subject: Daily Summary of Solar Geophysical Activity for 12 April

To: info-hams@ucsd.edu

DAILY SUMMARY OF SOLAR GEOPHYSICAL ACTIVITY

12 APRIL, 1994

(Based In-Part On SESC Observational Data)

SOLAR AND GEOPHYSICAL ACTIVITY INDICES FOR 12 APRIL, 1994

NOTE: The background x-ray flux was below A1.0 and energetic electrons at greater than 2 MeV continue at high to very high levels.

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 102, 04/12/94
10.7 FLUX=073.9 90-AVG=095 SSN=017 BKI=4442 3233 BAI=017
BGND-XRAY=A1.0 FLU1=1.6E+05 FLU10=1.0E+04 PKI=5553 3344 PAI=025
BOU-DEV=063,061,066,017,021,019,034,031 DEV-AVG=039 NT SWF=00:000
XRAY-MAX= B1.1 @ 0508UT XRAY-MIN= A1.0 @ 2111UT XRAY-AVG= A3.0
NEUTN-MAX= +003% @ 1530UT NEUTN-MIN= -002% @ 1830UT NEUTN-AVG= +0.3%
PCA-MAX= +0.1DB @ 2355UT PCA-MIN= -0.5DB @ 0115UT PCA-AVG= -0.0DB
BOUTF-MAX=55364NT @ 0046UT BOUTF-MIN=55304NT @ 1843UT BOUTF-AVG=55332NT
GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+076,+000,+000
GOES6-MAX=P:+128NT@ 1755UT GOES6-MIN=N:-115NT@ 0312UT G6-AVG=+094,+028,-046

FLUXFCST=STD:100,095,090;SESC:100,095,090 BAI/PAI-FCST=020,015,010/020,015,012 KFCST=3344 5333 3344 4332 27DAY-AP=018,032 27DAY-KP=4343 3433 4555 4343 WARNINGS=\*GSTRM;\*AURMIDWCH

ALERTS=
!!END-DATA!!

NOTE: The Effective Sunspot Number for 11 APR 94 was 15.2.

The Full Kp Indices for 11 APR 94 are: 4+ 6- 6- 5+ 4- 3+ 3+ 4+

The 3-Hr Ap Indices for 11 APR 94 are: 34 62 66 55 25 20 19 35

Greater than 2 MeV Electron Fluence for 12 APR is: 2.3E+09

### SYNOPSIS OF ACTIVITY

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Solar activity continues very low. Region 7700 (N09E20) is the only spotted region visible.

Solar activity forecast: solar activity is expected to be very low.

The geomagnetic field varied from quiet to minor storm levels. The most disturbed periods occurred during local nighttimes. The greater than 2 MeV electron fluence was at high levels.

Geophysical activity forecast: the geomagnetic field is expected to be mostly active early, then calm to generally unsettled conditions by the end of the interval.

Event probabilities 13 apr-15 apr

Class M 01/01/01 Class X 01/01/01 Proton 01/01/01 PCAF Green

Geomagnetic activity probabilities 13 apr-15 apr

A. Middle Latitudes

Active 35/30/25 Minor Storm 25/20/10 Major-Severe Storm 10/10/05

B. High Latitudes

Active 40/30/30 Minor Storm 30/20/20 Major-Severe Storm 15/10/10 HF propagation conditions continued to be well below normal over most regions. High and polar latitudes continue to see periods of poor to very poor propagation. All regions are experiencing depressions in MUF by about 30 to 40 percent. Gradual improvements are expect on 13 or 14 April over the lower latitudes. Higher latitudes will likely require additional days to recover from this disturbance. Recurrent night-sector substorming will continue to produce periods of minor signal degradation over the high and polar latitude circuits.

COPIES OF JOINT USAF/NOAA SESC SOLAR GEOPHYSICAL REPORTS

REGIONS WITH SUNSPOTS. LOCATIONS VALID AT 12/2400Z APRIL

NMBR LOCATION LO AREA Z LL NN MAG TYPE 7700 N08E20 203 0030 CRO 05 007 BETA REGIONS DUE TO RETURN 13 APRIL TO 15 APRIL NMBR LAT LO 7696 S16 096

LISTING OF SOLAR ENERGETIC EVENTS FOR 12 APRIL, 1994
-----BEGIN MAX END RGN LOC XRAY OP 245MHZ 10CM SWEEP
NONE

POSSIBLE CORONAL MASS EJECTION EVENTS FOR 12 APRIL, 1994
-----BEGIN MAX END LOCATION TYPE SIZE DUR II IV
NO EVENTS OBSERVED

INFERRED CORONAL HOLES. LOCATIONS VALID AT 12/2400Z

ISOLATED HOLES AND POLAR EXTENSIONS

EAST SOUTH WEST NORTH CAR TYPE POL AREA OBSN
75 N22W02 N08W28 N20W30 N26W07 239 ISO NEG 006 10830A
76 N35E88 S30E68 S10E18 N40E88 173 ISO POS 022 10830A

SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY

Date Begin Max End Xray Op Region Locn 2695 MHz 8800 MHz 15.4 GHz

11 Apr: 0524 0527 0530 B1.0

## REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY

C M X S 1 2 3 4 Total (%) -- -- ---- -- -- -- -- ---Uncorrellated: 0 0 0 0 0 0 0 001 (100.0)

Total Events: 001 optical and x-ray.

EVENTS WITH SWEEPS AND/OR OPTICAL PHENOMENA FOR THE LAST UTC DAY

Date Begin Max End Xray Op Region Locn Sweeps/Optical Observations NO EVENTS OBSERVED.

#### NOTES:

All times are in Universal Time (UT). Characters preceding begin, max, and end times are defined as: B = Before, U = Uncertain, A = After. All times associated with x-ray flares (ex. flares which produce associated x-ray bursts) refer to the begin, max, and end times of the x-rays. Flares which are not associated with x-ray signatures use the optical observations to determine the begin, max, and end times.

Acronyms used to identify sweeps and optical phenomena include:

II = Type II Sweep Frequency Event

III = Type III Sweep = Type IV Sweep
= Type V Sweep TV

Continuum = Continuum Radio Event Loop = Loop Prominence System,

Spray = Limb Spray,
Surge = Bright Limb Surge,
EPL = Eruptive Prominence on the Limb.

\*\* End of Daily Report \*\*

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Date: 14 Apr 94 11:31:09 GMT

From: dog.ee.lbl.gov!agate!howland.reston.ans.net!usenet.ins.cwru.edu!

magnus.acs.ohio-state.edu!tgwright@ucbvax.berkeley.edu

Subject: Florida west coast repeaters

To: info-hams@ucsd.edu

Can anyone tell me what the PL code is for the Sanibel Island 144 repeater? Also, what machines are accessible from North Captiva Island with a handheld?

Thanks, Tom KF8LM

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Date: Thu, 14 Apr 1994 01:02:14 GMT

From: ihnp4.ucsd.edu!library.ucla.edu!news.ucdavis.edu!csus.edu!netcom.com!

wa2ise@network.ucsd.edu

Subject: FM Broadcast as a freq. ref.

To: info-hams@ucsd.edu

In article <Co7rLo.5o8@cbnewsm.cb.att.com> hellman@cbnewsm.cb.att.com
 (eric.s.hellman) writes:

>I have a stereo rcvr (mainly used as an amp) that displays to 50 KHz.
>It has always been "off" by that much. That is, stations are tuned in for
>best reception when the display reads 50 KHz away from the published freq.
>There's nothing in the service manual that gives an alignment solution.
>The rcvr has a pll ic and a uP control with clock and counter built in.

I played with this sort of radio some years ago, and remember that the PLL circuits would divide down the local oscillator (used to hetrodyne the station's carrier to the IF freq, 10.7MHz) and count out the cycles of that and use a crystal based osc for the timing reference. The system would count out X cycles per Y cycles of reference cycles, Y usually a fixed value, and X would be compared with the expected value for the frequency in the band you told it to tune to + 10.7 Maybe that reference is off frequency a bit. 50KHz out of 100 MHz is around what, 500 ppm, crystals should be better than that, but maybe there is a trimmer cap you can tweak up. Crystal is probably around 4MHz, or sone such number.

Hope this helps:wq

-----

Date: Wed, 13 Apr 1994 20:23:31 GMT

From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!

howland.reston.ans.net!cs.utexas.edu!chpc.utexas.edu!news.utdallas.edu!corpgate!

nrtpa038!brtph560!tcain@network.ucsd.edu
Subject: Green Card Lottery- Final One?

To: info-hams@ucsd.edu

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(Doug Faunt N6TOS 510-655-8604) writes:
>Perhaps someone, preferably a lawyer, in Arizona, could drop a copy of
>this message to the local bar association.
why?
Tom Cain WB80UE@ko23
                                                 tcain@bnr.ca
_____
Date: Tue, 12 Apr 1994 13:42:54 GMT
From: usc!howland.reston.ans.net!pipex!zaphod.crihan.fr!univ-lyon1.fr!
swidir.switch.ch!scsing.switch.ch!news.dfn.de!news.dfn.de!news.uni-bielefeld.de!
news.uni-essen.de!Kite.@@ihnp4.ucsd.edu
Subject: Ham radio in Germany
To: info-hams@ucsd.edu
x3670 (lieser@iccgcc.cs.hh.ab.com) wrote:
: Is the 2-meter band typically the most used band in Europe also
: (particularly Germany)? I know that in Europe it only extends
: from 144-146MHz, while the 70cm band is much wider. I had thoughts
: of taking a small rig while vacationing. Does anyone have any
: experience with this? (I could only hope that I'd pass the test
: and receive my license before September.)
: I've looked on various ftp sites in Finland and Germany and can't
: seem to find much info. Also, we don't get 'de' groups here.
: Thanks,
: Ed Lieser
: Allen-Bradley Co., Cleveland, Ohio

      Holger Kollmeier, DL 2 YBZ
      kollme@automat.uni-essen.de

      Universitaet GH Essen, FB 12
      Tel.: [+49] 201 -- 183 -- 2183

      D - 45117 Essen
      Fax: [+49] 201 -- 183 -- 2944

         Operator of DL 0 IE (Clubstation University of Essen)
Date: Wed, 13 Apr 1994 23:29:11 GMT
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!howland.reston.ans.net!pipex!sunic!
```

trane.uninett.no!nac.no!ifi.uio.no!wabbit.cc.uow.edu.au!metro!ipso!

rwc@network.ucsd.edu

Subject: IPS Daily Report - 13 April 94

In article <FAUNT.94Apr12095919@netcom12.netcom.com> faunt@netcom12.netcom.com

To: info-hams@ucsd.edu

SUBJ: IPS DAILY SOLAR AND GEOPHYSICAL REPORT ISSUED AT 13/2330Z APRIL 1994 BY IPS RADIO AND SPACE SERVICES FROM THE REGIONAL WARNING CENTRE (RWC), SYDNEY. SUMMARY FOR 13 APRIL AND FORECAST UP TO 16 APRIL

IPS Warning 10 was issued on 31 March and is still current.

1A. SOLAR SUMMARY Activity: very low

Flares: none.

Observed 10.7 cm flux/Equivalent Sunspot Number: 074/011

1B. SOLAR FORECAST

Activity Very low Very low Very low Very low Fadeouts None expected None expected None expected

Forecast 10.7 cm flux/Equivalent Sunspot Number: 075/013

1C. SOLAR COMMENT

None.

\_\_\_\_\_

2A. MAGNETIC SUMMARY

Geomagnetic field at Learmonth: unsettled to active

Estimated Indices : A K Observed A Index 12 April

Learmonth 21 2343 4444

Fredericksburg 20 23 Planetary 20 25

Observed Kp for 12 April: 5553 3344

2B. MAGNETIC FORECAST

DATE Ap CONDITIONS

14 Apr 22 Unsettled to active.

15 Apr 15 Unsettled.

16 Apr 10 Quiet to unsettled.

2C. MAGNETIC COMMENT

None.

3A. GLOBAL HF PROPAGATION SUMMARY

### LATITUDE BAND

DATE	LOW	MIDDLE	HIGH
13 Apr	normal	fair-normal	poor

PCA Event : None.

3B. GLOBAL HF PROPAGATION FORECAST

LATITUDE BAND

DA	TE	LOW	MIDDLE	HIGH
14	Apr	normal	normal	poor-fair
15	Apr	normal	normal	fair
16	Apr	normal	normal	normal
20	CLODAL	HE DOODACATION	COMMENT	

3C. GLOBAL HF PROPAGATION COMMENT

NONE.

4A. AUSTRALIAN REGION IONOSPHERIC SUMMARY MUFs at Sydney were depressed 15-30% until 07UT, near normal thereafter.

Observed T index for 13 April: 20

Predicted Monthly T Index for April is 40.

#### 4B. AUSTRALIAN REGION IONOSPHERIC FORECAST

DATE	T-index	MUFs	
14 Apr	40	Near predicted monthly	,
1E / n=	40	Near prodicted monthly	,

15 Apr 40 Near predicted monthly values. 16 Apr 40 Near predicted monthly values.

# 4C. AUSTRALIAN REGION COMMENT

None.

- -

IPS Regional Warning Centre, Sydney | IPS Radio and Space Services

values.

IPO Box 5606

 

 email: rwc@ips.oz.au
 fax: +61 2 4148331
 |PO Box 566

 RWC Duty Forecaster
 tel: +61 2 4148329
 |West Chats

 Recorded Message
 tel: +61 2 4148330
 |AUSTRALIA

 |West Chatswood NSW 2057

Date: 14 Apr 94 09:52:53 GMT

From: dog.ee.lbl.gov!agate!usenet.ins.cwru.edu!cleveland.Freenet.Edu!

eq153@ucbvax.berkeley.edu

Subject: Katashi Nose, KH6IJ, 1916-1994

To: info-hams@ucsd.edu

Katashi Nose - The name brings back memories of a lifetime of ham radio. The first QST

articles of his that I remember were before WW2. I was a teenager and thought his name was pronounced like the proboscis on my face. :-)

I never had the pleasure of working him on the air, but will always remember his articlesw. I , for one, will miss him.

My condolences to his family and friends. 73, Van - W8U0F wvanhorn@magnus.acs.ohio-state.edu

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Date: 13 Apr 1994 20:21:22 GMT

From: lerc.nasa.gov!magnus.acs.ohio-state.edu!slip1-7.acs.ohio-state.edu!

user@purdue.edu

Subject: Need Address of Panavise

To: info-hams@ucsd.edu

Hello,

Could someone who has a catalog or manual handy give me the address and phone number of the company that makes the Panavise bench presses, vises etc.

Thanks, Ron Long w8gus.

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Date: Wed, 13 Apr 94 14:40:00 -0400

From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!darwin.sura.net!hearst.acc.Virginia.EDU!pplace!pete.wildman@network.ucsd.edu

Subject: QSL route
To: info-hams@ucsd.edu

My info for V26AS says qsl via:

Joe

P0 Box 1828

St John's, Antigua

West Indies

Good luck Pete/KR4PU

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Date: 14 Apr 94 13:36:02 GMT

From: hp81.prod.aol.net!search01.news.aol.com!not-for-mail@uunet.uu.net

Subject: RS Sale on Handhelds ????

To: info-hams@ucsd.edu

Summarized: Are the 2 mtr and 440 handhelds from Radio Shack any good. He is interested since they are both on sale.

The 2 mtr version has been plagued by problems of low audio. Many have had to be returned and replaced by RS. Not usre if this problem was duplicated with the 440 rig.

But it sounds to me like RS may be getting ready to clear out the inventory and drop those models. Not sure if they will be bringing out a new model or simply getting out of the ham market. I wish RS was more upfront about their plans. Bought one of their Sensation computers and really was burnt when they brought out the new model and didn't support the users of their first system. If I were you I'd stay away from the RS products and buy your handheld from a reputible ham radio manufacturer.

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Date: 14 Apr 94 11:48:20 GMT From: news-mail-gateway@ucsd.edu Subject: Spatial Polarity ??

To: info-hams@ucsd.edu

In responding to questions about EME programs, Charlie Betz NOAKC, says: > There is also a new program available from Paul, N1BUG, that also includes > spatial polarity calculations (not sure if SKYMOON does that or not).

I know polarity comes in positive and negative. How does this affect radio propagation? How is the polarity of space computed?

(Or do you mean polarization? .... as in antennas and radio waves ....)

73 de Bob, w3otc@amsat.org

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Date: 14 Apr 94 11:42:47 GMT

From: dog.ee.lbl.gov!agate!news.Brown.EDU!noc.near.net!news.delphi.com!

gilbaronw@mn@ucbvax.berkeley.edu

Subject: STOP SENDING HAMS ON USENET CRAP !!!

To: info-hams@ucsd.edu

>gilbaronwOmn@delphi.com (Gilbert Baron) writes:

>

>>Please explain why crossposting does not use more bandwidth. Inquiring minds

>>would like to know. 10k x 2 lists is 20k of data.

>

>Because the article is but one, with a reference to all the other groups >that may have interest in it. 10k x 1 newsgroup with 3 other newsgroups

I have recieved this explanation a number of times and it is a good thing. Delphi does work that way too. The only problem with delphi is that many are using the same program that I do to give them an offline capability for usenet and the local forums. That program get the news directly from the news data base and it does not do anything to the .newsrc file which means mulitple reciept for the users. It also does not permit crossposting and that can mean multiple post although I think few do that. I am trying to get the author to implement crosspost. Perhaps in another version.

Gil Baron, El Baron Rojo, WOMN Rochester,MN
"Bailar es Vivir"
PGP2.3 key at key servers or upon request

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End of Info-Hams Digest V94 #416 \*\*\*\*\*\*\*\*\*\*\*